Specification

Please amend the specification as follows:

Please replace the paragraph on page 5, lines 4-5, with the following paragraphs:

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Figure 3A depicts an exemplary allele calling algorithm for use with methods and systems consistent with certain embodiments of the present invention.

Figure 3B depicts an exemplary allele calling algorithm for use with methods and systems consistent with certain embodiments of the present invention.

Figure 3C depicts an exemplary allele calling algorithm for use with methods and systems consistent with certain embodiments of the present invention.

Figure 3D depicts an exemplary allele calling algorithm for use with methods and systems consistent with certain embodiments of the present invention.

Please replace the paragraph on page 5, lines 17-18, with the following paragraphs:

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Fax 202.408.4400 www.finnegan.com Figure 10 depicts data that can be evaluated with the heuristic algorithm according to certain embodiments.

Figure 11 depicts data that can be evaluated with the heuristic algorithm according to certain embodiments.

Figure 12 depicts data that can be evaluated with the heuristic algorithm according to certain embodiments.